

# LINE THERMAL PRINTER MECHANISM

## LT-281

Paper Roll  
**60**  
mm

SPEED  
101.6<sup>mm/sec</sup>  
MAX.



### Features

- 60mm paper width
- 24V operation
- High-speed print: Max. 101.6mm/sec
- Heavy duty design offers higher reliability

### Optional Accessories

#### Auto cutter



AC-5/5F (Saw tooth blade)



ACS-229 (V-shaped blade)

### Specifications

		LT-281
Printing method		Thermal dot line printing method
Total dots		448 dots/lines
Dot density		8 dots/mm
Printing width		56mm
Printing speed		Max. 101.6mm/sec. (813 dot-lines/sec)
Paper feeding pitch		0.125mm
Sensors	PE sensor	Photo-Interrupter
	Head temperature	Thermistor
	Head-up	Mechanical switch
Operating voltage range *1	Vp	DC 22.8 to 25.2V
	Vdd	DC 4.75 to 5.25V
Current consumption	Head	0.9A
	Motor	0.39A
	Width	59.5mm ±0.5mm
Recommended paper	Paper thickness	65µm
	Paper diameter *2	φ83mm or less
	Paper (Manufacturer)	TF50SY-EY, TF50KS-E2C (Nippon Paper)
Reliability *3	Head pulse-resistance	100 million pulses or more
	Head wear-resistance	100km or more
Environment	Operation	Temperature: 5 to 40°C Humidity: 35 to 80% RH
	Storage	Temperature: -20 to 60°C Humidity: 10 to 90% RH
External dimensions		111.5 (W) × 53.5 (D) × 40.8 (H)mm
Weight		Approx. 300g

\*1: Voltage drop at maximum current may cause the print quality problem. Please check it carefully in your environment such as control board, wiring, etc. Also please keep the voltage within the specified voltage range even by the voltage drop.

\*2: The number of diameter varies depending on the conditions.

\*3: Normal temperature at 25°C, normal humidity, 12.5% printing ratio, rated energy and by use of the recommended print paper.

# LINE THERMAL PRINTER MECHANISM LT2221 / LT2221C

Paper Roll  
58  
mm

SPEED  
150  
mm/sec.  
MAX.  
REMOVABLE  
PLATEN



## Specifications

		LT2221 / LT2221C
Printing method		Thermal dot line printing method
Total dots		432 dots/lines
Dot density		8 dots/mm
Printing width		54mm
Printing speed		Max. 150mm/sec (1200 dot-lines/sec)
Paper feeding pitch		0.125mm
Sensors	PE sensor	Photo-Interrupter
	Head temperature	Thermistor
	Platen	Photo-Interrupter
Operating voltage range *1	VH	DC 21.6 to 26.4V
	Vdd	DC 4.75 to 5.25V
Current consumption	Head (Vp=5V)	Max. 4.9A approx.
	Motor (Vp=5V)	Max. 0.46A approx.
Recommended paper	Width	58mm
	Thickness	60 to 105µm (Standard) 110 to 150µm (A type)
	Paper diameter *2	φ83mm or less
Reliability *3	Paper (Manufacturer)	TF50KS-E2D (Nippon Paper)
	Head pulse-resistance	100 millions pulses or more
	Head wear-resistance	100km or more
Environment	Auto cutter life *4	0.3 millions cuts
	Operation	Temperature: 0 to 50°C Humidity: 35 to 85% RH
	Storage	Temperature: -20 to 60°C Humidity: 10 to 90% RH
External dimensions		91.5 (W) × 58 (D) × 20 (H)mm (LT2221) 101.3 (W) × 61.5 (D) × 37.2 (H)mm (LT2221C)
Weight		Approx. 88g (LT2221) Approx. 281g (LT2221C)

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\*2: The number of diameter varies depending on the conditions.  
\*3: Normal temperature at 25°C, normal humidity, 12.5% printing ratio, rated energy and by use of the recommended print paper.  
\*4: The number is under the condition of 150µm paper thickness. Performance may be changed depending on the cutter equipping method.

## Features

- 58mm paper width
- 24V operation
- High-speed print: Max. 150mm/sec
- Platen removable design
- Auto cutter equipped (LT2221C)
- Compact design

## Optional Accessory

### Control board



BD2-2221

# LINE THERMAL PRINTER MECHANISM LT2321 / LT2321C

Paper Roll  
80  
mm

SPEED  
150  
mm/sec.  
MAX.  
REMOVABLE  
PLATEN



## Specifications

		LT2321 / LT2321C
Printing method		Thermal dot line printing method
Total dots		576 dots/lines
Dot density		8 dots/mm
Printing width		72mm
Printing speed		Max. 150mm/sec (1200 dot-lines/sec)
Paper feeding pitch		0.125mm
Sensors	PE sensor	Photo-Interrupter
	Head temperature	Thermistor
	Platen	Photo-Interrupter
Operating voltage range *1	VH	DC 21.6 to 26.4V
	Vdd	DC 4.75 to 5.25V
Current consumption	Head (Vp=5V)	Max. 4.9A approx.
	Motor (Vp=5V)	Max. 0.3A approx.
Recommended paper	Width	80mm
	Thickness	60 to 105µm (Standard) 110 to 150µm (A type)
	Paper diameter *2	φ83mm or less
Reliability *3	Paper (Manufacturer)	TF50KS-E2D (Nippon Paper)
	Head pulse-resistance	100 million pulses or more
	Head wear-resistance	100km or more
Environment	Auto cutter life *4	0.3 millions cuts
	Operation	Temperature: 0 to 50°C Humidity: 35 to 85% RH
	Storage	Temperature: -20 to 60°C Humidity: 10 to 90% RH
External dimensions		108 (W) × 58 (D) × 20 (H)mm (LT2321) 119 (W) × 61.5 (D) × 37.2 (H)mm (LT2321C)
Weight		Approx. 98g (LT2321) Approx. 331g (LT2321C)

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\*2: The number of diameter varies depending on the conditions.  
\*3: Normal temperature at 25°C, normal humidity, 12.5% printing ratio, rated energy and by use of the recommended print paper.  
\*4: The number is under the condition of 150µm paper thickness. Performance may be changed depending on the cutter equipping method.

## Features

- 80mm paper width
- 24V operation
- High-speed print: Max. 150mm/sec
- Platen removable design
- Auto cutter equipped (LT2321C)
- Compact design

## Optional Accessory

### Control board



BD2-2221

Model classification  
**LT2221HC**  
1) 2) 3) 4) 5)

1) Paper width  
2: 58mm  
3: 80mm  
2) Voltage  
2: 24V

3) Type  
1: Platen removable model  
4) Paper path  
H: Curl  
5) Cutter  
None: Standard  
C: With cutter

Model classification  
**BD2 - 2221RSU**  
1) 2)

1) Applicable Mechanisms  
0: LT2X20  
1: LT2X21

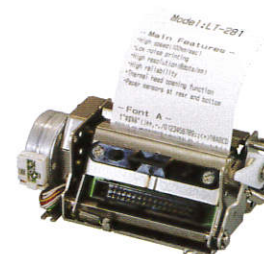
1) Applicable Mechanisms  
0: LT2X20  
1: LT2X21

2) Interface  
PA: Parallel (IEEE1284 compliant)  
RS: Serial (RS-232C compliant)  
UB: USB

# LINE THERMAL PRINTER MECHANISM LT-281

Paper Roll  
60  
mm

SPEED  
101.6  
mm/sec.  
MAX.



## Features

- 60mm paper width
- 24V operation
- High-speed print: Max. 101.6mm/sec
- Heavy duty design offers higher reliability

## Optional Accessories

### Auto cutter



AC-5/5F (Saw tooth blade)



ACS-229 (V-shaped blade)

## Specifications

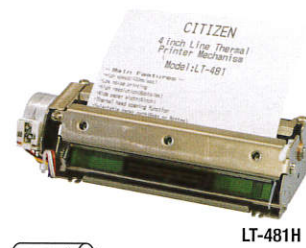
		LT-281
Printing method		Thermal dot line printing method
Total dots		448 dots/lines
Dot density		8 dots/mm
Printing width		56mm
Printing speed		Max. 101.6mm/sec. (813 dot-lines/sec)
Paper feeding pitch		0.125mm
Sensors	PE sensor	Photo-Interrupter
	Head temperature	Thermistor
	Head-up	Mechanical switch
Operating voltage range *1	Vp	DC 22.8 to 25.2V
	Vdd	DC 4.75 to 5.25V
Current consumption	Head	0.9A
	Motor	0.39A
Recommended paper	Width	59.5mm ±0.5mm
	Paper thickness	65µm
	Paper diameter *2	φ83mm or less
Reliability *3	Paper (Manufacturer)	TF50SY-EY, TF50KS-E2C (Nippon Paper)
	Head pulse-resistance	100 million pulses or more
	Head wear-resistance	100km or more
Environment	Operation	Temperature: 5 to 40°C Humidity: 35 to 80% RH
	Storage	Temperature: -20 to 60°C Humidity: 10 to 90% RH
External dimensions		111.5 (W) × 53.5 (D) × 40.8 (H)mm
Weight		Approx. 300g

\*1: Voltage drop at maximum current may cause the print quality problem. Please check it carefully in your environment such as control board, wiring, etc. Also please keep the voltage within the specified voltage range even by the voltage drop.  
\*2: The number of diameter varies depending on the conditions.  
\*3: Normal temperature at 25°C, normal humidity, 12.5% printing ratio, rated energy and by use of the recommended print paper.

# LINE THERMAL PRINTER MECHANISM LT-481

Paper Roll  
112  
mm

SPEED  
100  
mm/sec.  
MAX.



LT-481H



LT-481

## Features

- 112mm paper width
- 24V operation
- High-speed print: Max. 100mm/sec
- Heavy duty design offers higher reliability

## Optional Accessories

### Auto cutter



AC-6 (Saw tooth blade)



ACS-249 (V-shaped blade)

## Specifications

		LT-481
Printing method		Thermal dot line printing method
Total dots		832 dots/lines
Dot density		8 dots/mm
Printing width		104mm
Printing speed		Max. 100mm/sec. (800 dot-lines/sec)
Paper feeding pitch		0.125mm
Sensors	PE sensor	Photo-Interrupter
	Head temperature	Thermistor
	Head-up	Mechanical switch
Operating voltage range *1	Vp	DC 22.8 to 25.2V
	Vdd	DC 4.75 to 5.25V
Current consumption	Head	1.6A
	Motor	0.48A
Recommended paper	Width	111.5mm ±0.5mm
	Paper thickness	65µm
	Paper diameter *2	φ83mm or less
Reliability *3	Paper (Manufacturer)	TF50SY-EY, TF50KS-E2C (Nippon Paper)
	Head pulse-resistance	100 million pulses or more
	Head wear-resistance	100km or more
Environment	Operation	Temperature: 5 to 40°C Humidity: 35 to 80% RH
	Storage	Temperature: -20 to 60°C Humidity: 10 to 90% RH
External dimensions		161 (W) × 60 (D) × 41 (H)mm
Weight		Approx. 420g

\*1: Voltage drop at maximum current may cause the print quality problem. Please check it carefully in your environment such as control board, wiring, etc. Also please keep the voltage within the specified voltage range even by the voltage drop.  
\*2: The number of diameter varies depending on the conditions.  
\*3: Normal temperature at 25°C, normal humidity, 12.5% printing ratio, rated energy and by use of the recommended print paper.

Model classification  
**LT - 281**  
1)

1) Model  
LT-281

Model classification  
**LT - 481**  
1)

1) Model  
LT-481